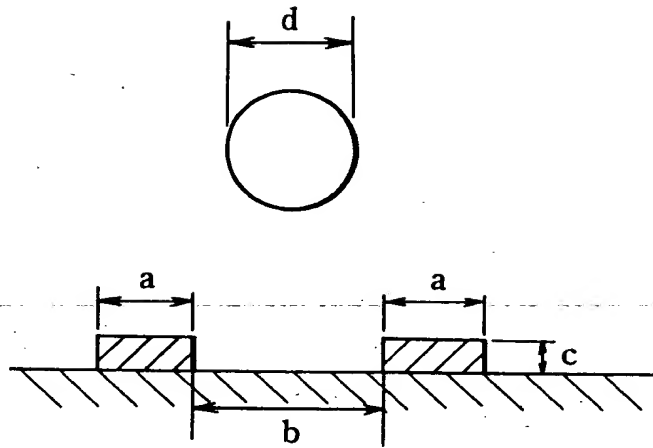
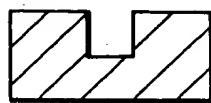


1/24

**FIG.1****FIG.2A****FIG.2B****FIG.2C**

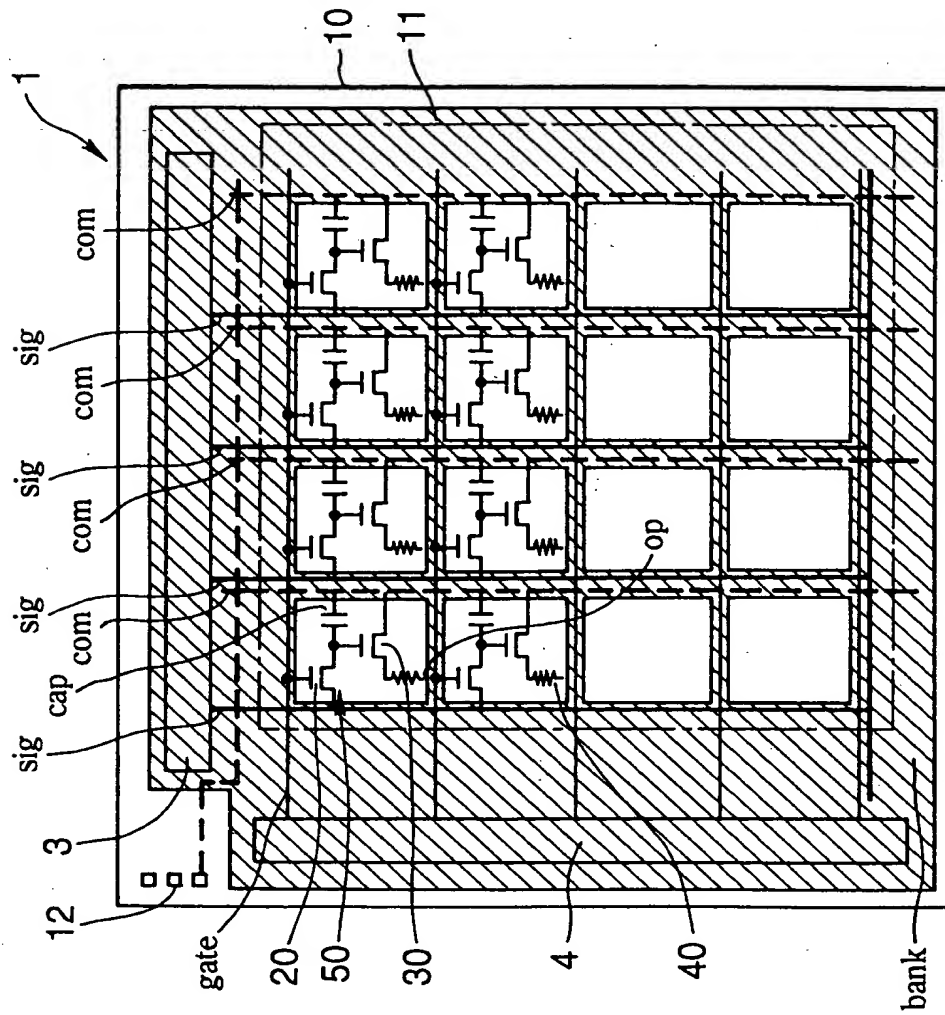


FIG.3

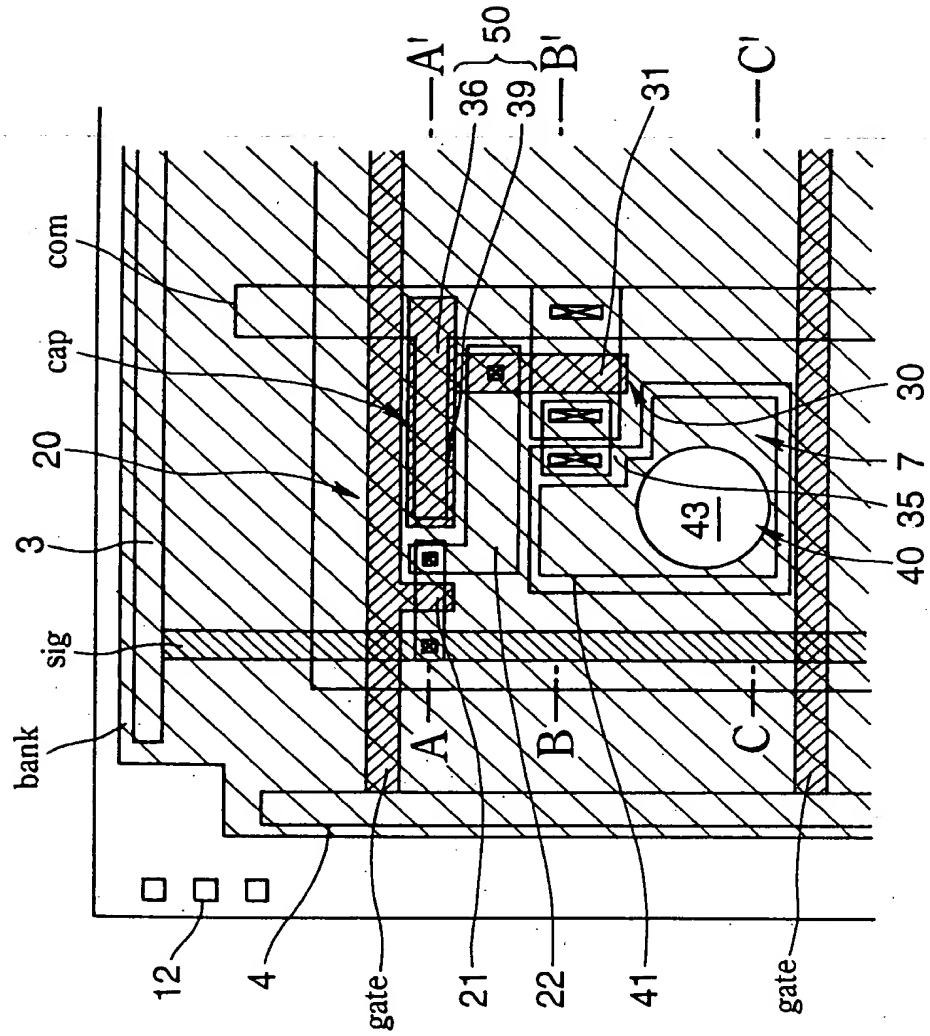
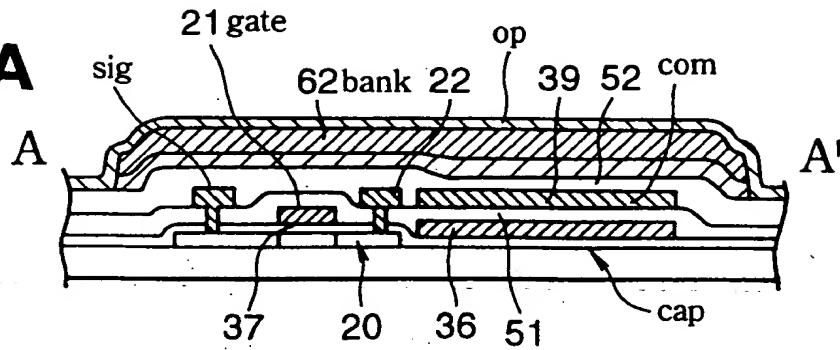
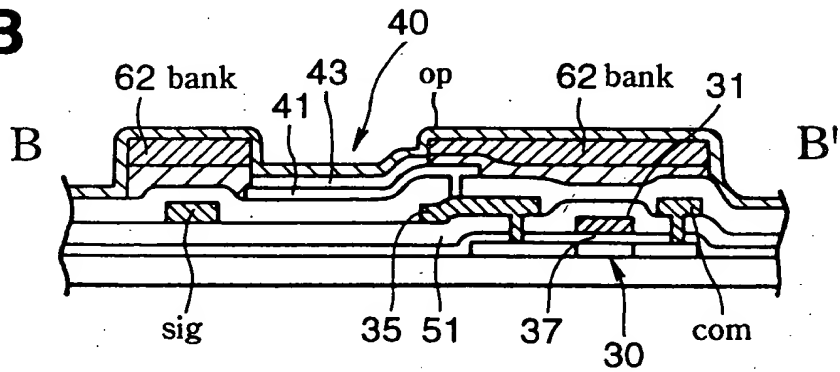
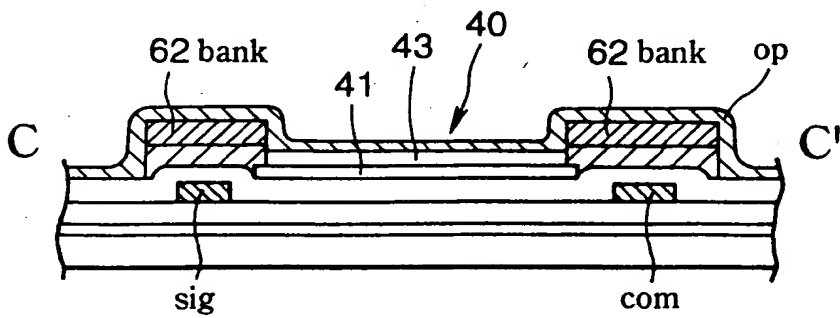
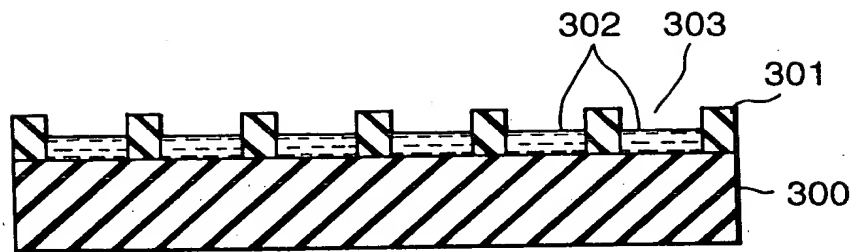


FIG. 4

**FIG.5A****FIG.5B****FIG.5C**

5/24

**FIG.6**

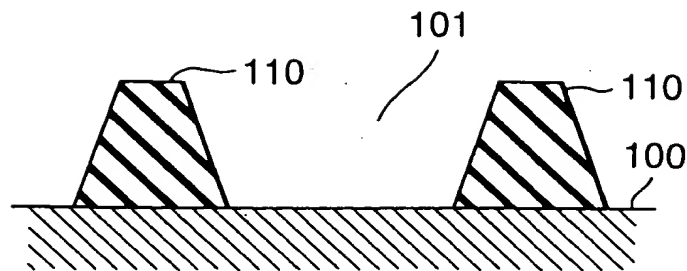
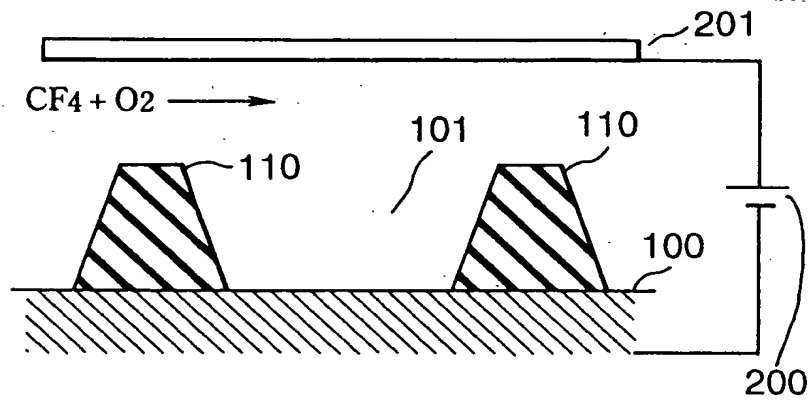
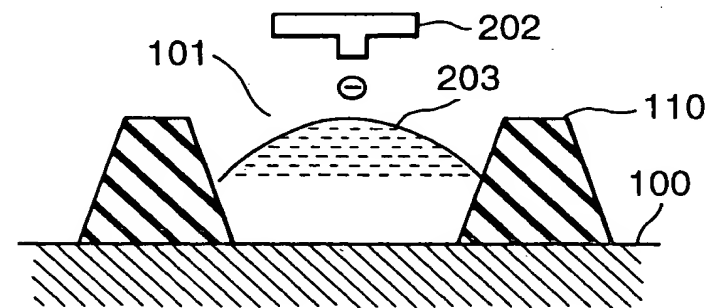
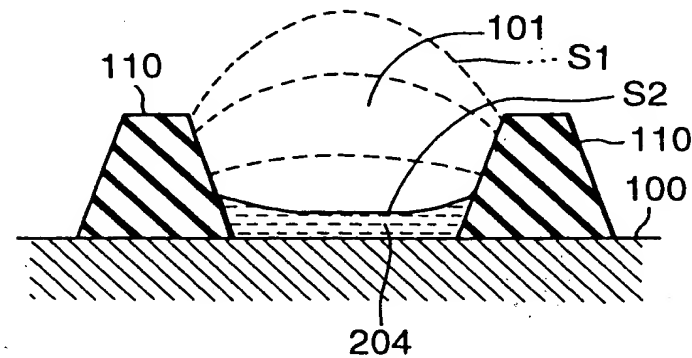
A diagram showing a horizontal beam supported by four vertical supports, represented by hatched rectangles. A curved line, representing a load or deflection, is drawn above the beam, starting from the first support, peaking between the second and third supports, and ending at the fourth support.

A diagram showing a horizontal beam supported by two vertical supports. A curved line representing a load is applied to the top of the beam, starting from the left support, arching upwards, and ending at the right support. The beam is represented by a horizontal line with diagonal hatching above and below it.

A diagram of a beam of length  $l$  with a central point load  $P$  and two supports. The beam is represented by a horizontal line with a central point load  $P$  acting downwards. The beam is supported by two vertical supports, one at each end. The distance between the supports is  $l$ . The beam is shown in a slightly curved shape, indicating deflection under the load.

$$X = E$$

7/24

**FIG. 8A****FIG. 8B****FIG. 8C****FIG. 8D**

214 Rec'd PCT/JP 1 2 NOV 1989

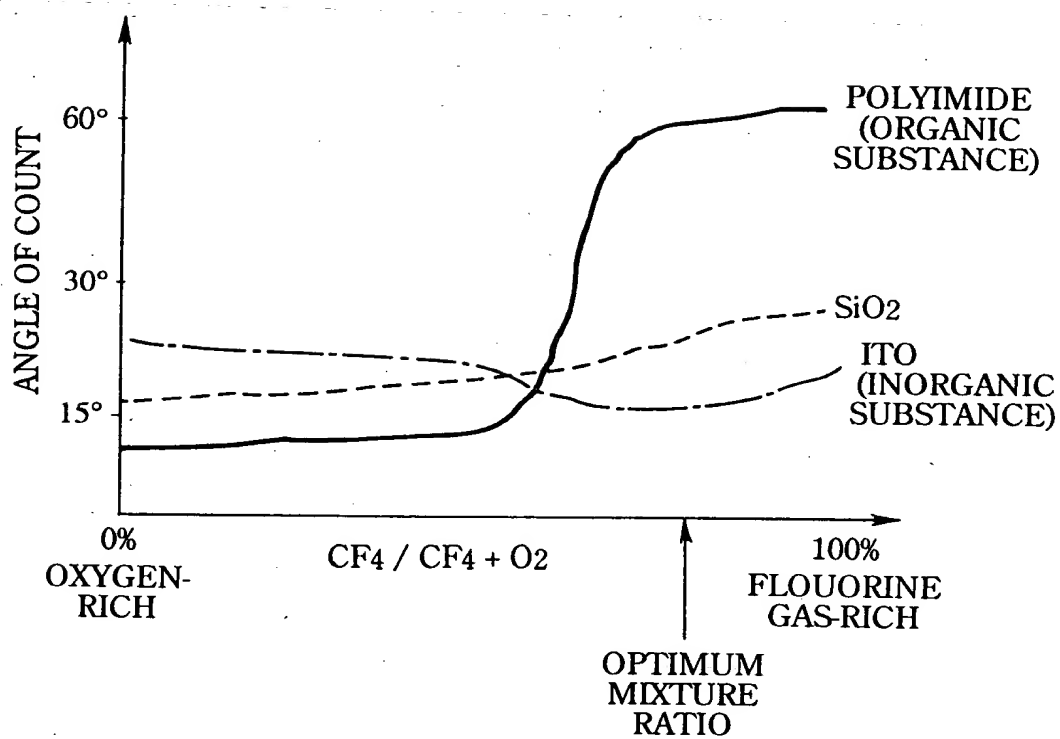


FIG.9



9/24

FIG.10A

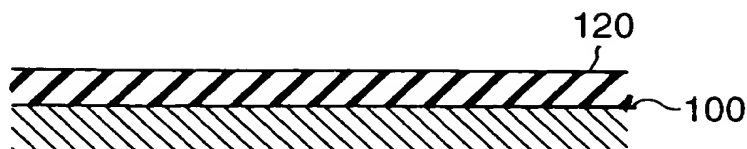


FIG.10B

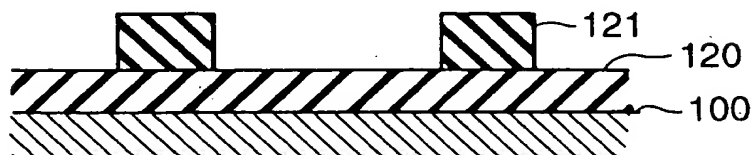


FIG.10C

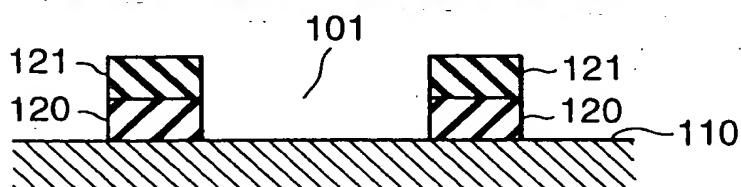


FIG.10D

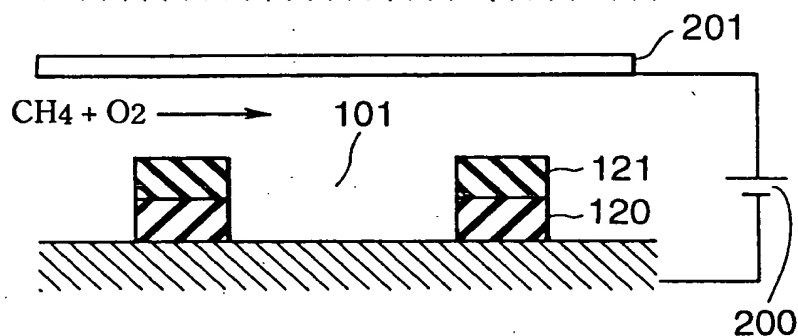


FIG.10E

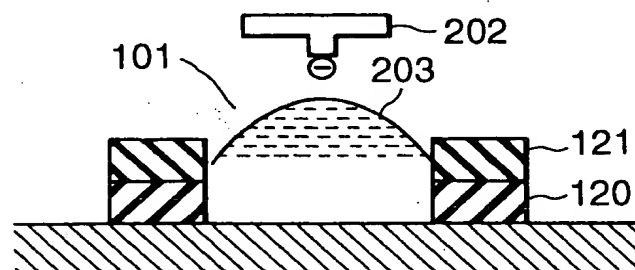
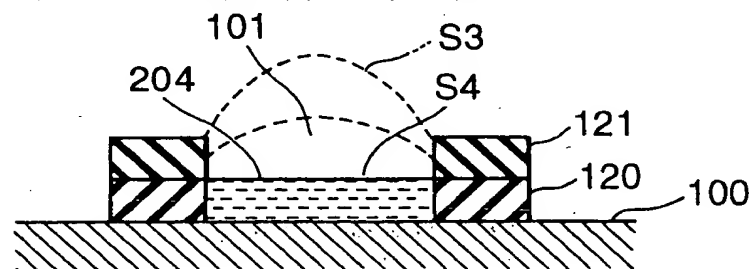


FIG.10F



10/24

FIG.11A

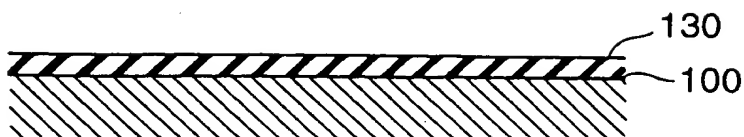


FIG.11B

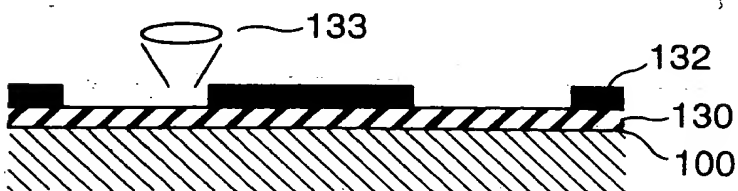


FIG.11C

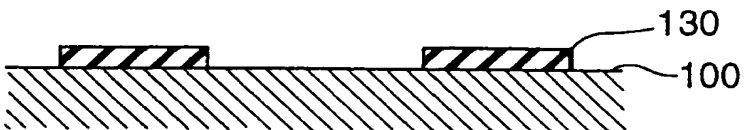


FIG.11D

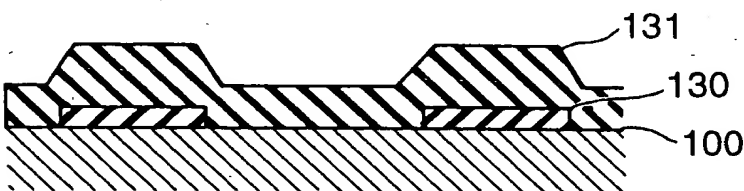


FIG.11E

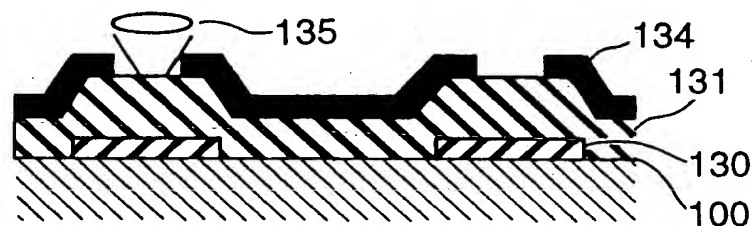
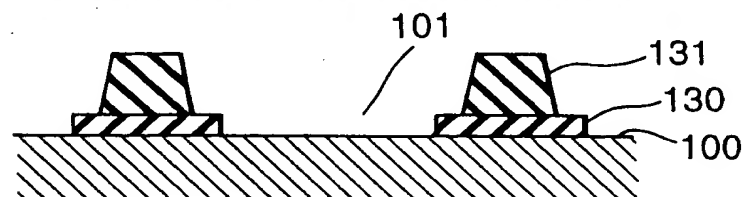


FIG.11F



11/24

FIG.12A

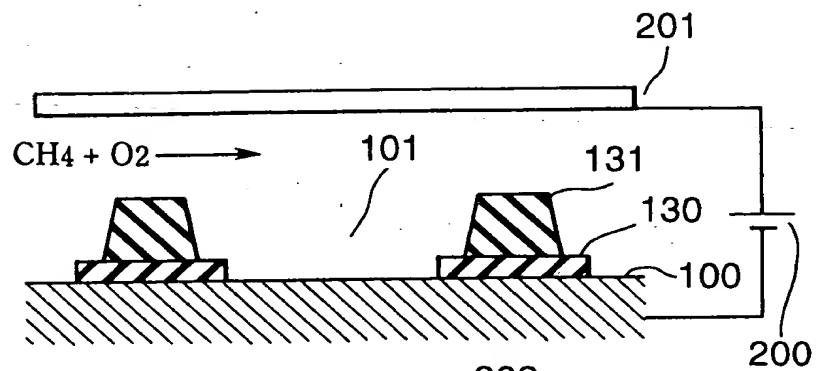


FIG.12B

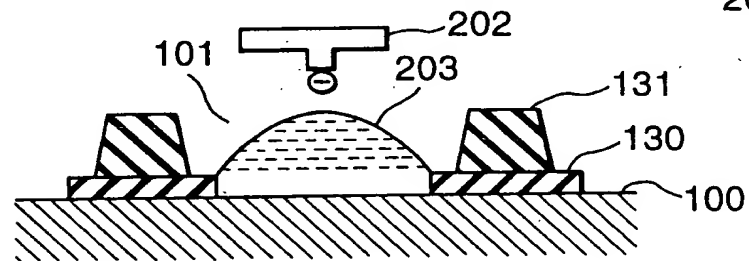
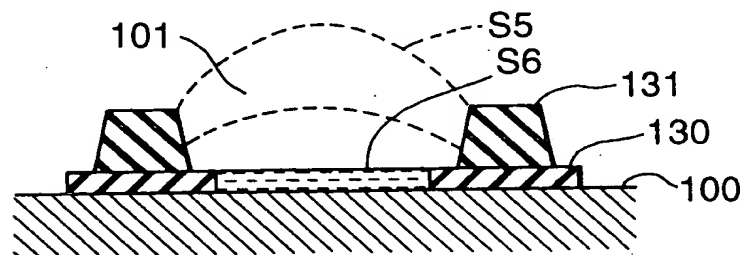
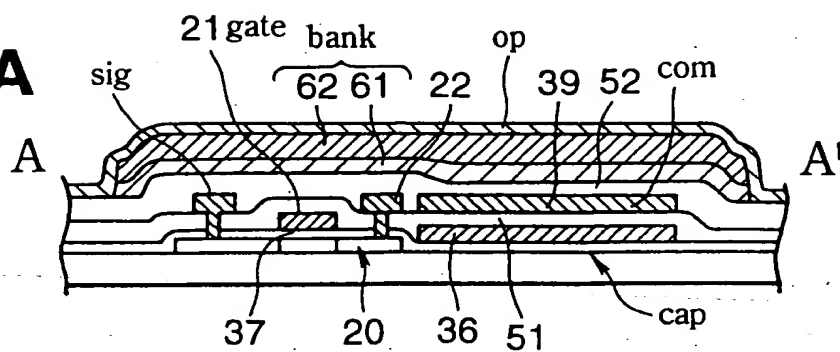
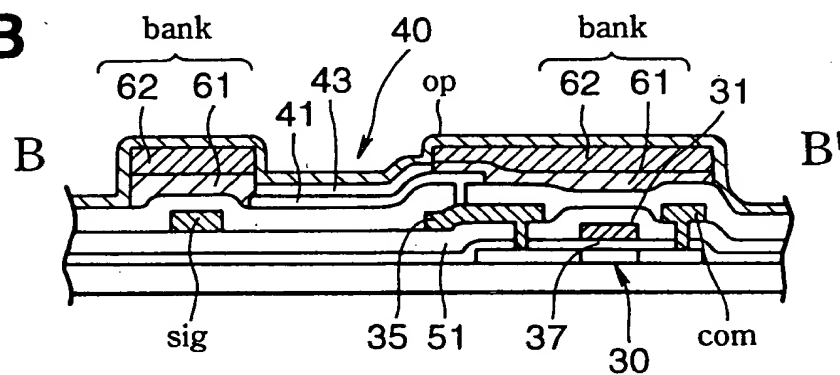
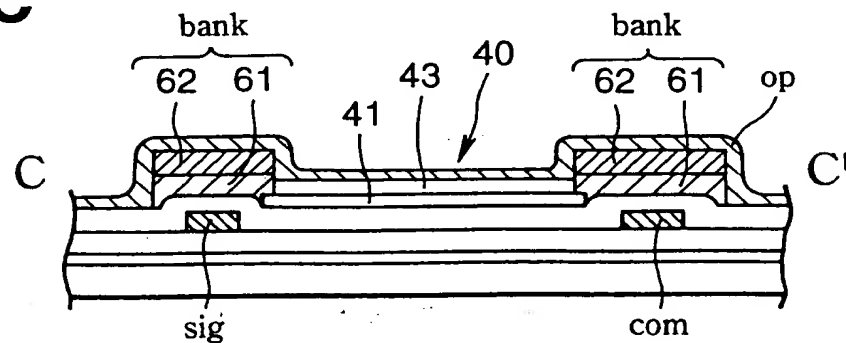


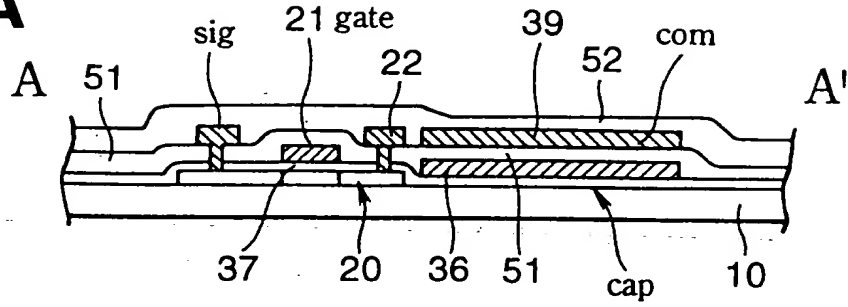
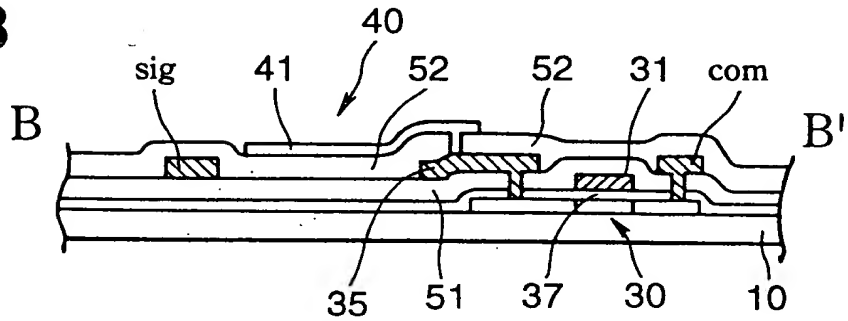
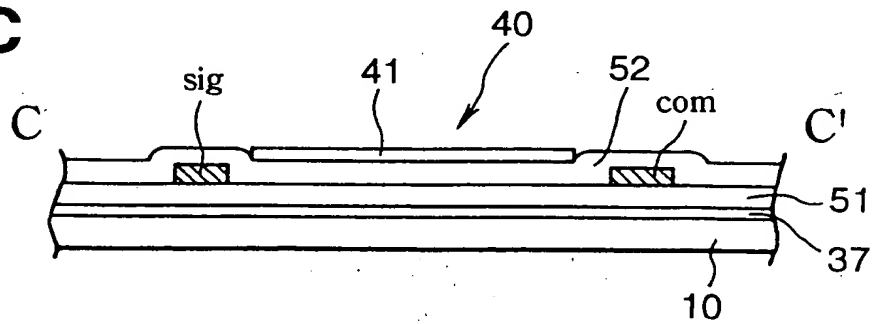
FIG.12C



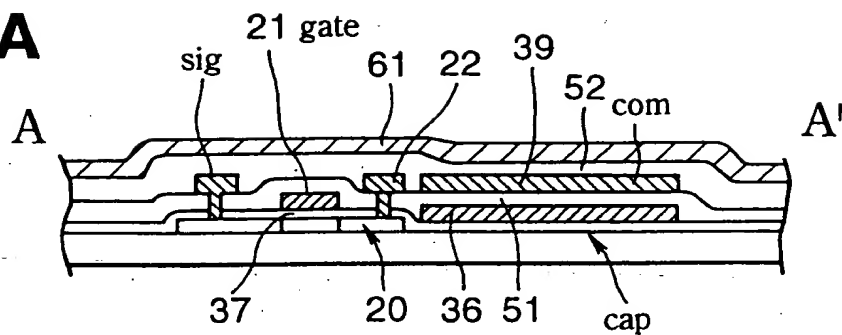


**FIG.14A****FIG.14B****FIG.14C**

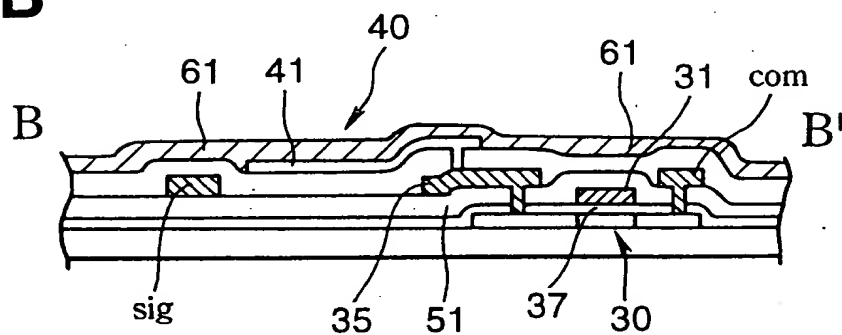
14/24

**FIG.15A****FIG.15B****FIG.15C**

**FIG.16A**



**FIG.16B**



**FIG.16C**

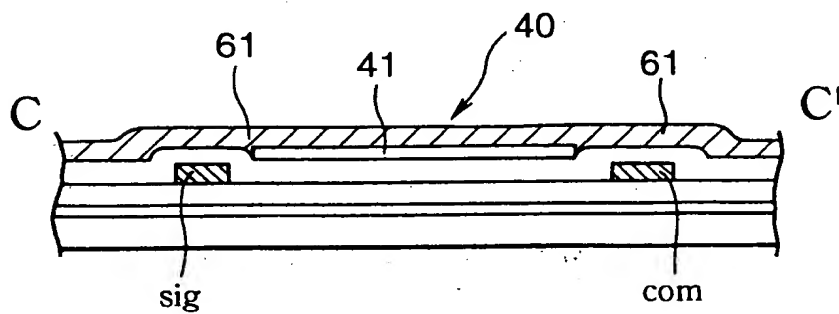


FIG.17A

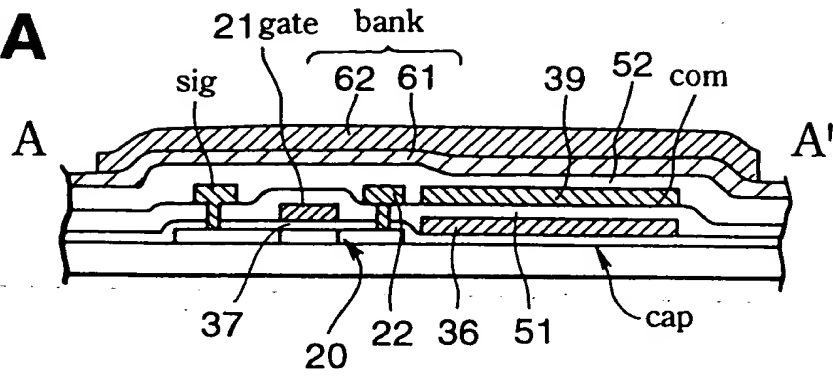


FIG.17B

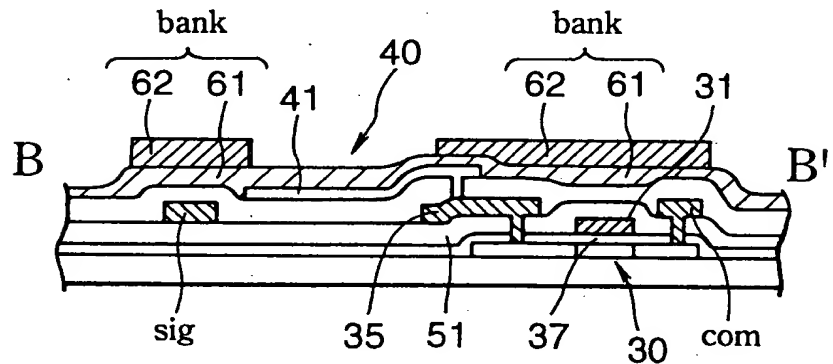
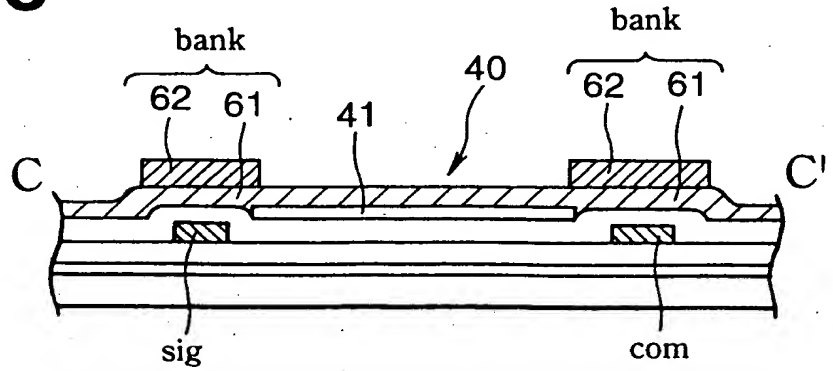


FIG.17C





17/24

FIG.18A

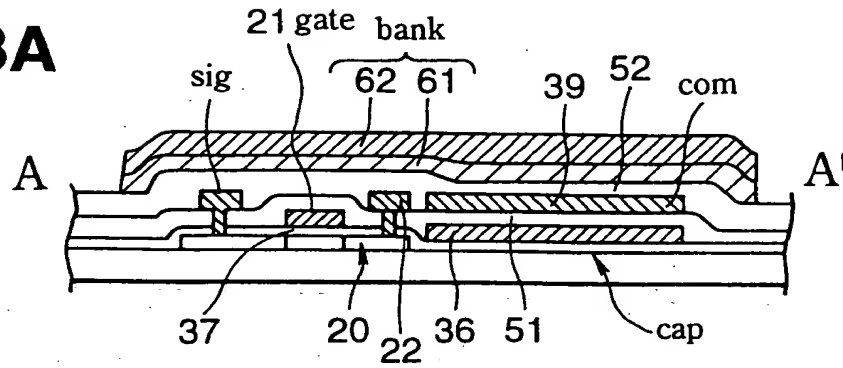


FIG.18B

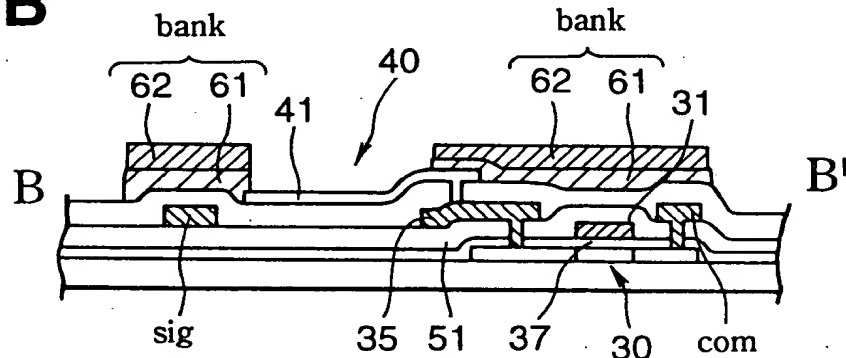


FIG.18C

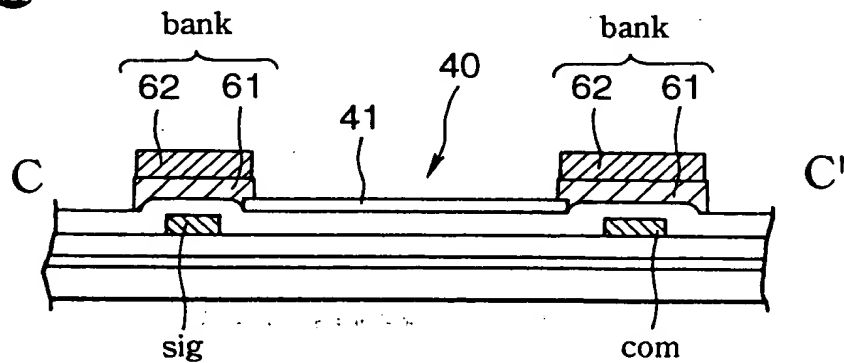


FIG.19A

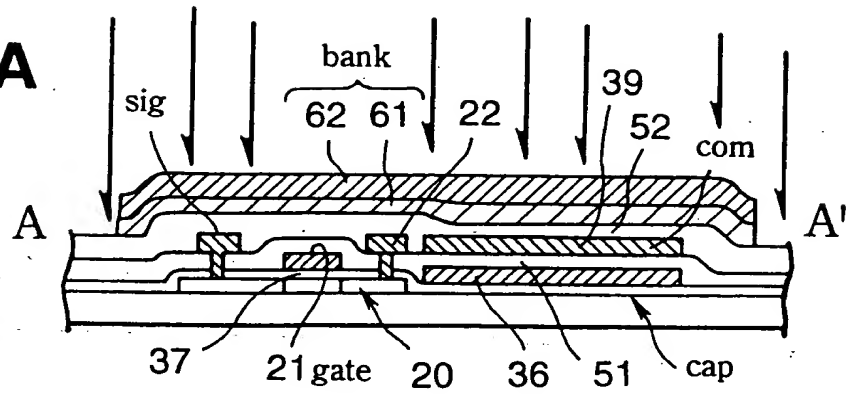


FIG.19B

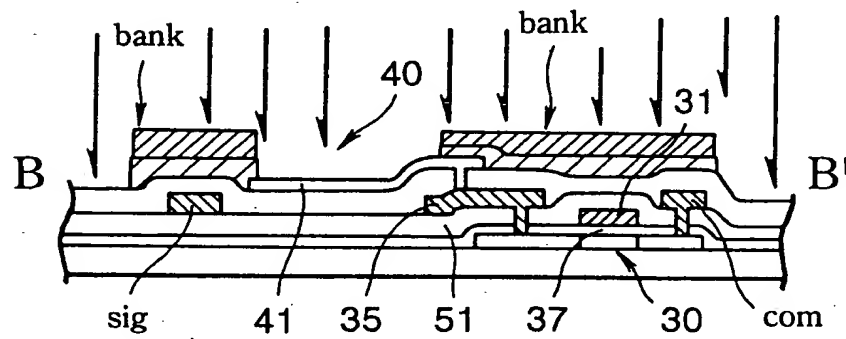


FIG.19C

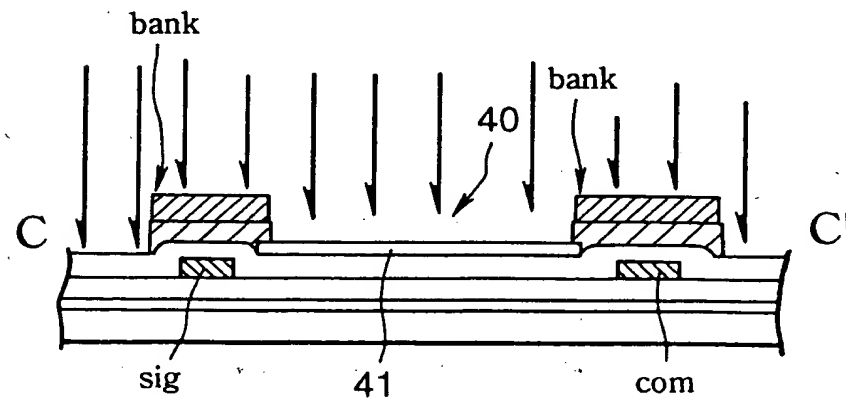


FIG.20A

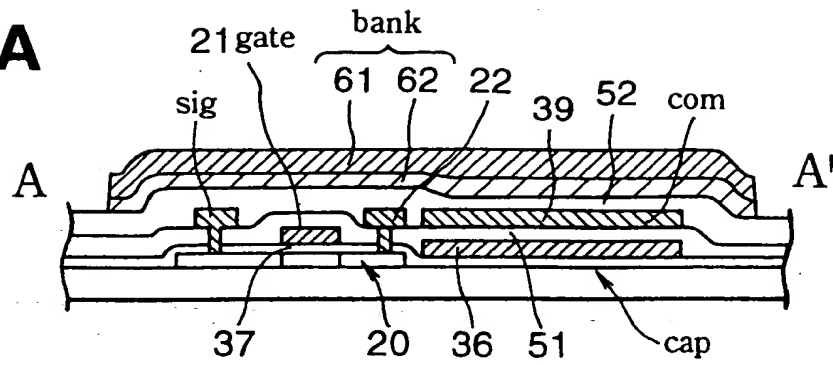


FIG.20B

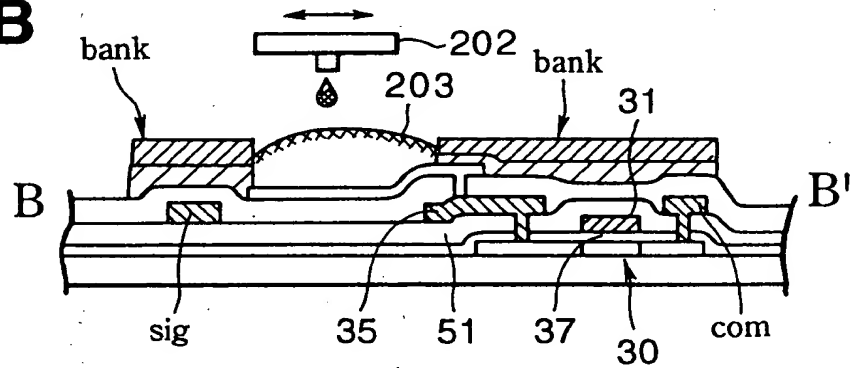
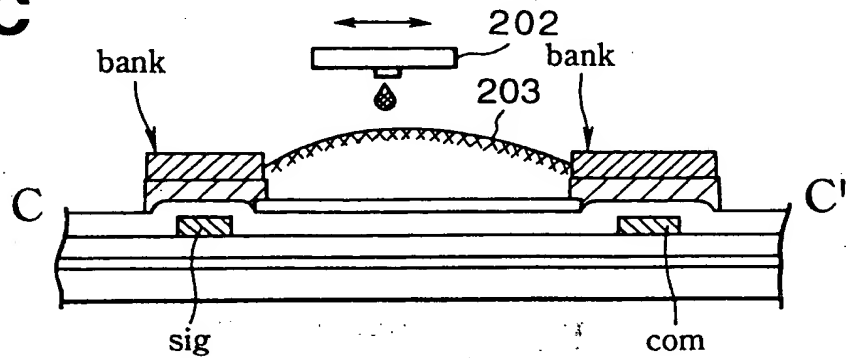


FIG.20C



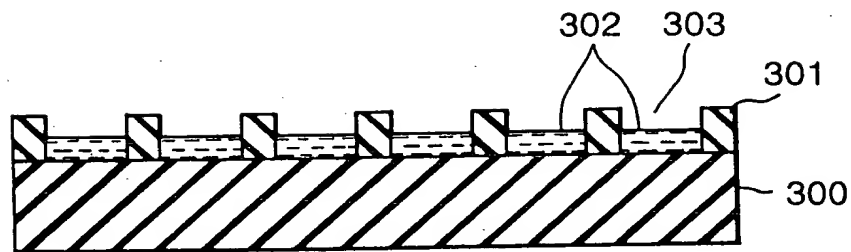


FIG.21

P14 Rec'd PC1910 1 2 NOV 1988

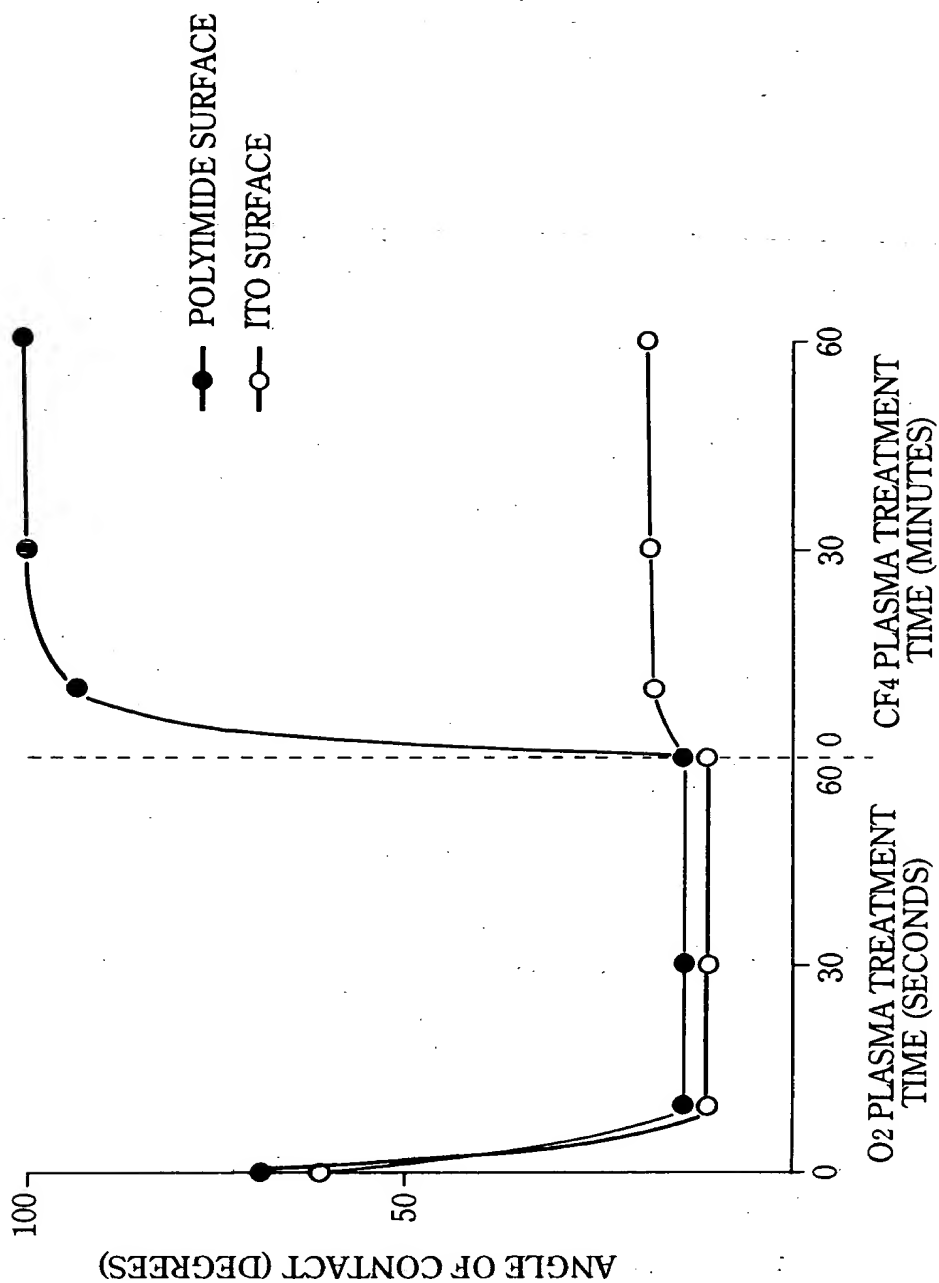


FIG.22

FIG.23A

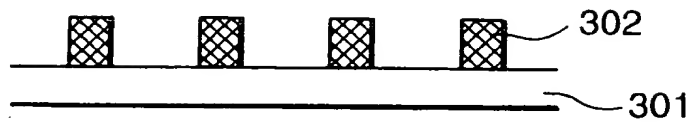


FIG.23B

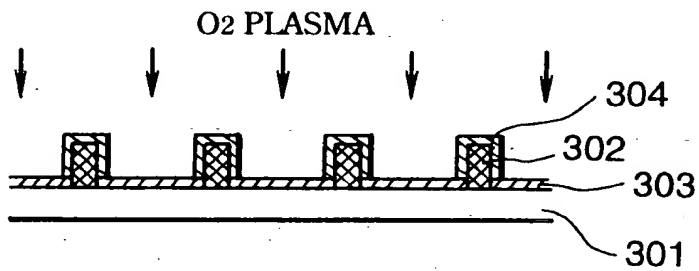


FIG.23C

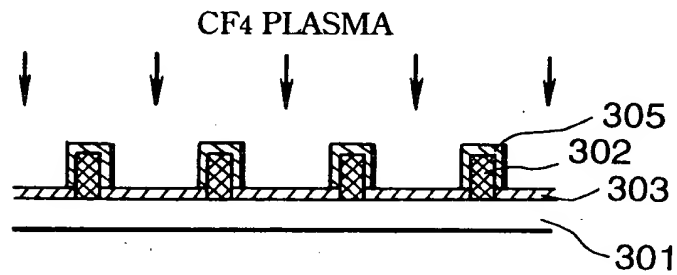


FIG.23D

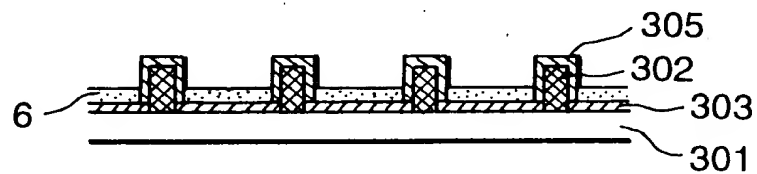


FIG.23E

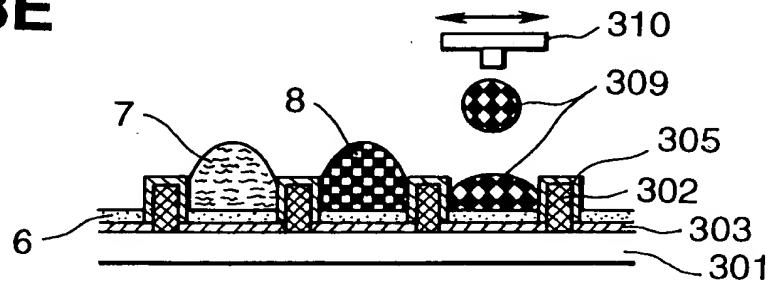


FIG.24A

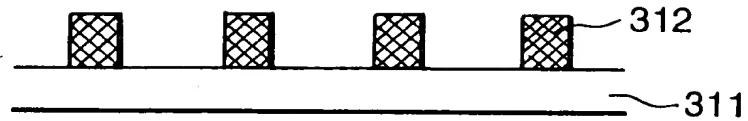


FIG.24B

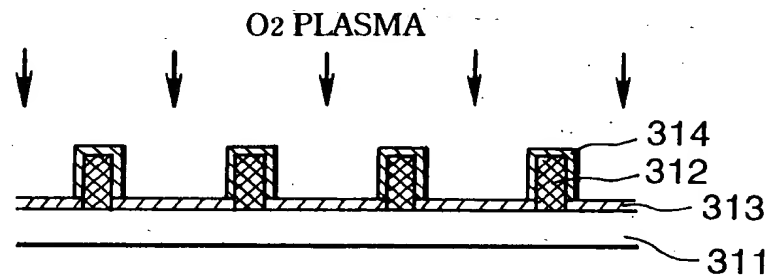


FIG.24C

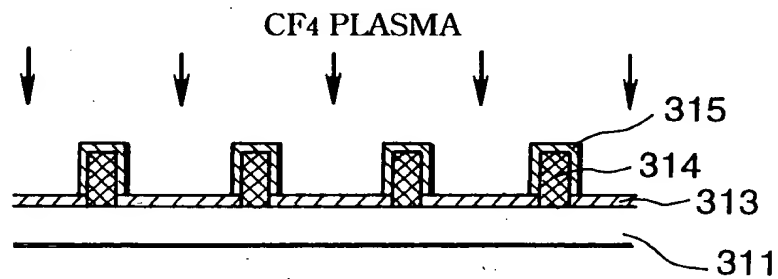
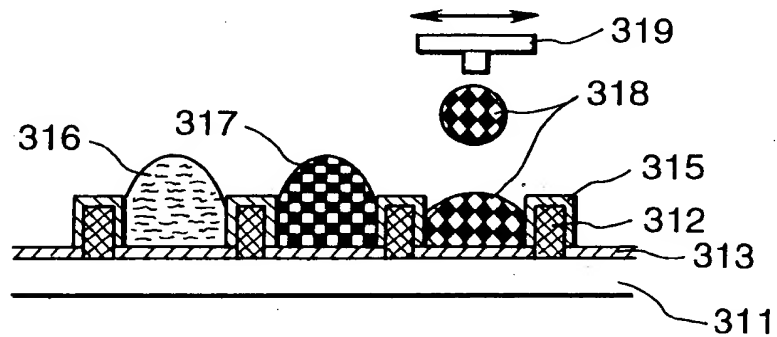
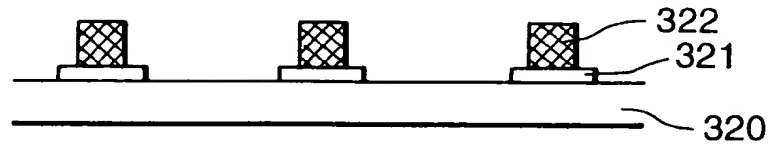
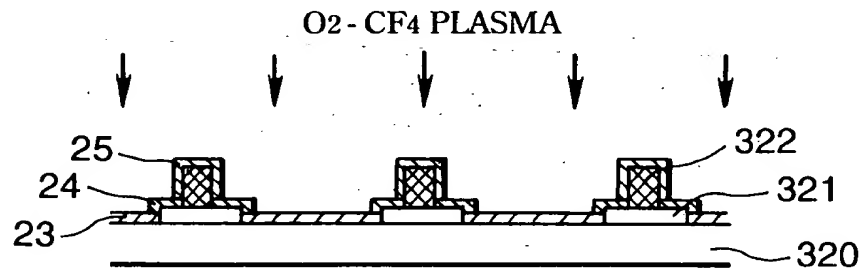
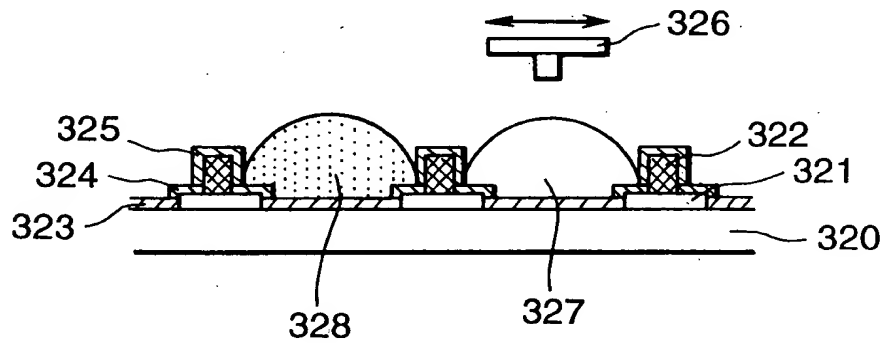


FIG.24D



**FIG.25A****FIG.25B****FIG.25C****FIG.25D**